

# List of publications

Márton Ispány

## Articles in Journals, Chapters in Books

- [1] J. B. de Souza, V. A. Reisen, G. C. Franco, M. Ispány, P. Bondon, and J. M. Santos, “Generalized additive model with principal component analysis: an application to time series of respiratory disease and air pollution data,” *Journal of the Royal Statistical Society, Series C*, vol. 67, to appear, 2017.
- [2] J. Reiczigel, M. Ispány, G. Tusnády, G. Michaletzky, and M. Marozzi, “Bias-corrected estimation of the Rudas-Clogg-Lindsey mixture index of fit,” *British Journal of Mathematical and Statistical Psychology*, to appear, 2017.
- [3] M. Ispány, “Some asymptotic results for strongly critical branching processes with immigration in varying environment,” in *Branching Processes and Their Applications*, ser. Lecture Notes in Statistics - Proceedings, I. M. del Puerto, M. V. González, C. Gutiérrez, R. Martínez, C. Minuesa, M. Molina, M. Mota, and A. Ramos, Eds., vol. 219, (MR3587996), Switzerland: Springer, 2016, pp. 77–95.
- [4] N. Bátfai, A. Mamenyák, P. Jeszenszky, G. Kövér, M. Smajda, R. Besenczi, B. Halász, G. Terdik, and M. Ispány, “Avatar-based sport science soccer simulations,” *Annales Mathematicae et Informaticae*, vol. 46, pp. 13–36, 2016.
- [5] N. Bátfai, P. Jeszenszky, A. Mamenyák, B. Halász, R. Besenczi, J. Komzsik, B. Kóti, G. Kövér, M. Smajda, C. Székelyhídi, T. Takács, G. Róka, and M. Ispány, “Competitive programming: a case study for developing a simulation-based decision support system,” *Infocommunication Journal*, vol. 8, no. 1, pp. 24–38, 2016.
- [6] M. Bourguignon, K. Vasconcellos, V. A. Reisen, and M. Ispány, “A Poisson INAR(1) process with a seasonal structure,” *Journal of Statistical Computation and Simulation*, vol. 86, no. 2, pp. 373–387, 2016, (IF:0.749, MR3406739).
- [7] H. Grol-Prokopczyk, E. Verdes, M. McEniry, and M. Ispány, “Promises and pitfalls of anchoring vignettes in health survey research,” *Demography*, vol. 52, no. 5, pp. 1703–1728, 2015, (IF:2.8).
- [8] N. Bátfai, R. Besenczi, A. Mamenyák, and M. Ispány, “Traffic simulation based on the robocar world championship initiative,” *Infocommunication Journal*, vol. 7, no. 3, pp. 50–58, 2015.
- [9] L. Gyórfi, M. Ispány, P. Kevei, and G. Pap, “Asymptotic behavior of a multi-type nearly critical Galton-Watson processes with immigration,” *Theory of Probability and its Applications*, vol. 59, no. 4, pp. 590–610, 2015, (republication, IF:0.408, MR3431697, Zbl 06526368).
- [10] M. Barczy, M. Ispány, and G. Pap, “Asymptotic behavior of CLS estimators for unstable INAR(2) models,” *Scandinavian Journal of Statistics*, vol. 41, no. 4, pp. 866–892, 2014, (IF:0.867, MR3277028, Zbl 1305.62321).
- [11] L. Gyórfi, M. Ispány, P. Kevei, and G. Pap, “Asymptotic behavior of a multi-type nearly critical Galton-Watson processes with immigration,” *Teoriya Veroyatnostei i ee Primeneniya*, vol. 59, no. 4, pp. 752–775, 2014.
- [12] M. Ispány, K. Körmendi, and G. Pap, “Statistical inference for 2-type doubly symmetric critical Galton-Watson processes with immigration,” *Bernoulli*, vol. 20, no. 4, pp. 2247–2277, 2014, (IF:1.161, MR3263104, Zbl 1321.60178).
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- [24] S. Baran, J. Gáll, M. Ispány, and G. Pap, “Forecasting Hungarian mortality rates using the Lee-Carter method,” *Acta Oeconomica*, vol. 57, no. 1, pp. 21–34, 2007.
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## Conference Papers

- [38] R. Besenczi, M. Szilágyi, N. Bátfai, A. Mamenyák, S. Oniga, and M. Ispány, “Using crowdsensed information for traffic simulation in the Robocar World Championship framework,” in *Cognitive Infocommunications (CogInfoCom), 2015 6th IEEE International Conference on*, ser. 19–21 October, 2015, (DOI: 10.1109/CogInfoCom.2015.7390614), Danvers, USA: IEEE, 2015, pp. 333–337.
- [39] N. Bátfai, R. Besenczi, A. Mamenyák, and M. Ispány, “OOCWC: the robocar world championship initiative,” in *Proceedings of the 13th International Conference on Telecommunications (ConTEL 2015)*, T. Planck, Ed., ser. 13–15 July, 2015, IEEE, Danvers, USA: Graz University of Technology, Graz, Austria, 2015, pp. 1–6.
- [40] L. Szathmáry and M. Ispány, “CGT: a vertical miner for frequent equivalence classes of itemsets,” in *Proceedings of the 1st International Conference and Exhibition on Future RFID Technologies*, ser. 6–7 November, 2014, [electronic], Eger, Hungary: EKTF, 2015, pp. 161–169.
- [41] R. Szabó, K. Farkas, M. Ispány, A. A. Benczúr, N. Bátfai, P. Jeszenszky, S. Laki, A. Vágner, L. Kollár, C. Sidló, R. Besenczi, M. Smajda, G. Kövér, T. Szincsák, T. Kádek, M. Kósa, A. Adamkó, I. Lendák, B. Wiandt, T. Tomas, A. Z. Nagy, and G. Fehér, “Framework for smart city applications based on participatory sensing,” in *Proceedings of IEEE 4th International Conference on Cognitive Infocommunications (CogInfoCom)*, ser. 2–5 December, 2013, (DOI: 10.1109/CogInfoCom.2013.6719260), Piscataway, NJ: IEEE, 2013, pp. 295–300.
- [42] A. Fülöp and M. Ispány, “Virtual military robot controlled by emotical agents using reinforcement learning,” in *Proceedings of the 8th International Conference on Applied Informatics (ICAI 2010)*, A. Egri-Nagy, E. Kovács, G. Kovásznai, G. Kuspér, and T. Tómacs, Eds., ser. 27–30 January, 2010, Eger, Hungary: EKTF, 2011, pp. 71–77.
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- [44] M. Ispány, “Limit theorems for critical inhomogeneous branching processes with immigration,” in *International Conference on Probability and Statistics with Applications. Dedicated to the 100th anniversary of the birthday of Béla Gyires*, M. Arató, Z. Daróczy, K. Győry, and A. Pethő, Eds., [abstract, electronic], Debrecen: Debreceni Egyetem, TEK, Informatikai Kar, 2009.
- [45] M. Ispány, “Application of the MCMC algorithm in Web mining,” in *Proceedings of the 6th International Conference on Applied Informatics (ICAI 2004)*, L. Csőke, P. Olajos, P. Szigetváry, and T. Tómacs, Eds., ser. 27–31 January, 2004, Eger, Hungary: EKTF, 2005, pp. 211–219.
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## Technical Reports

- [1] L. Györfi, M. Ispány, P. Kevei, and G. Pap., “Asymptotic behavior of a multi-type nearly critical Galton-Watson processes with immigration,” arXiv.org, arXiv:1307.7917, Tech. Rep., 2013.
- [2] M. Ispány, K. Körmendi, and G. Pap, “Asymptotic behavior of CLS estimators for 2-type doubly symmetric critical Galton-Watson processes with immigration,” arXiv.org, arXiv:1210.8315, Tech. Rep., 2012.
- [3] M. Ispány and G. Pap, “Asymptotic behavior of critical primitive multi-type branching processes with immigration,” arXiv.org, arXiv:1205.0388, Tech. Rep., 2012.
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- [10] S. Baran, J. Gáll, M. Ispány, and G. Pap, “Magyarországi halálzási valószínűségek előrejelzése Lee-Carter módszerrel,” Tech. Rep., 2005.
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- [15] M. Ispány, “On first-order time varying ARMA processes,” Institute of Mathematics and Informatics, University of Debrecen, Hungary, Tech. Rep. 252, 2000.
- [16] M. Ispány, “Time varying bilinear models with Gaussian innovation,” Institute of Mathematics and Informatics, University of Debrecen, Hungary, Tech. Rep. 251, 2000.
- [17] M. Ispány, “Affine state space representation of nonlinear time series,” Institute of Mathematics and Informatics, University of Debrecen, Hungary, Tech. Rep. 4, 2000.
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- [19] M. Ispány, “Random coefficient autoregressive processes,” Institute of Mathematics and Informatics, KLTE, Hungary, Tech. Rep. 111, 1994.
- [20] M. Ispány, “Bilinear time series models on Hilbert space,” Institute of Mathematics and Informatics, KLTE, Hungary, Tech. Rep. 113, 1994.
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- [22] M. Ispány, “A generalized Frobenius-Perron theorem with applications,” Institute of Mathematics and Informatics, KLTE, Hungary, Tech. Rep. 83, 1993.
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## Lectures on international and national conferences

- [1] with J. B. de Souza, V. A. Reisen, G. C. Franco, P. Bondon, and J. M. Santos, *An application of the gamma-var model to respiratory disease and air pollution data*, ITISE 2017 (International work-conference on Time Series), Granada, Spain, 18–20 September, 2017.
- [2] *Limit theorems for critical branching processes with immigration in varying environment*, XXXIV. International Seminar on Stability Problems for Stochastic Models, Debrecen, Hungary, 25–29 August, 2017.
- [3] *Közlekedéselemzés okos városokban*, Műszaki Térinformatika Egyesület 2017. évi konferenciája, [in hungarian], Eger, Magyarország, 2017. június 1–2.
- [4] *Kritikus elágazó folyamatok bevándorlással változó környezetben*, ELTE TTK Valószínűségelméleti és Statisztika Tanszék, Tanszéki szeminárium, [in hungarian], Budapest, Magyarország, 2015 június 12.
- [5] *On critical branching processes with immigration in varying environment*, III Workshop on Branching Processes and their Applications, Badajoz, Spain, 7–10 April, 2015.
- [6] *Szezonális struktúrájú egész értékű autoregressziós folyamatok*, Határeloszlás-tételek és alkalmazásai, MTA ülészak, [in hungarian], Budapest, Magyarország, 2015. május 20.
- [7] *Poisson INAR processes with serial and seasonal correlation*, Workshop on Time Series and Counting Processes with Application to Environmental and Networking Problems, Supélec, France, 30 January, 2015.
- [8] *Integer valued time series, Poisson INAR processes with serial and seasonal correlation*, 17. Gyires Béla Informatikai nap, Debrecen, Hungary, 2014 december 19.
- [9] *Poisson INAR processes with serial and seasonal correlation*, Workshop on Time Series with Application to Air Pollution Problem, Vitoria, Brazil, 27 October, 2014.
- [10] *Poisson INAR processes with serial and seasonal correlation*, International Work-Conference on Time Series Analysis (ITISE 2014), Granada, Spain, 25–27 June, 2014.
- [11] *Measuring criticality of time-varying branching processes with immigration*, 9th European Meeting of Statisticians, Budapest, Hungary, 20–25 July, 2013.
- [12] *Integer valued time series with applications*, MAT Fall School 2012, Visegrád, Hungary, 9–10 November, 2012.
- [13] *Nem-negatív egész értékű mátrixok approximációja és alkalmazása a magyar mortalitási adatokra*, BJMT Alkalmazott Matematikai Konferencia 2012, [in hungarian], Győr, Magyarország, 2012. június 21–23.
- [14] *Testing for a unit root in INAR(p) models*, Conference on Stochastic Models and their Applications, Dedicated to the 80th birthday of Mátyás Arató, Debrecen, Hungary, 22–24 August, 2011.
- [15] *Testing for a unit root in INAR(p) models*, Second International Workshop on Integer Valued Time Series (WINTS 2011), Protaras, Cyprus, 19–21 June, 2011.
- [16] with M. Barczy and G. Pap, *Asymptotic behavior of unstable INAR(p) processes*, Prague Stochastics 2010, Prague, Czech Republic, 30 August – 3 September, 2010.
- [17] *Approximation of non-negative integer-valued matrices with application to hungarian mortality data*, 19th International Symposium on Mathematical Theory of Networks and Systems (MTNS 2010), Budapest, Hungary, 5–9 July, 2010.
- [18] with L. Györfi, G. Pap, and K. Varga, *On limit of inhomogeneous nearly unstable INAR models*, 8th International Conference on Applied Informatics (ICAI 2010), Eger, Hungary, 27–30 January, 2010.
- [19] *Collaborative INAR(1) processes and random forests*, Workshop on Integer-valued Time Series Modelling (WINTS 2009), Aveiro, Portugal, 3–5 September, 2009.
- [20] *Limit theorems for critical inhomogeneous branching process with immigration*, International Conference on Probability and Statistics with Applications, Dedicated to the 100th anniversary of the birthday of Béla Gyires, Debrecen, Hungary, 8–12 June, 2009.
- [21] *Limit theorems for critical inhomogeneous branching process with immigration*, XXVIII International Seminar on Stability Problems for Stochastic Models, Zakopane, Poland, 31 May – 5 June, 2009.
- [22] *Limit theorems for critical inhomogeneous branching process with immigration*, Workshop on Branching Processes with Applications, (invited speaker), Badajoz, Spain, 20–23 April, 2009.
- [23] with B. Kis, *Az e-learning oktatás hatékonyságának statisztikai vizsgálata*, MoodleMoot 2007, [in hungarian], Debrecen, Magyarország, 2007. november 16–17.

- [24] with G. Fazekas and . Kovács, *E-learning tananyagok és tesztek minőségbiztosítása a Moodle segítségével*, MoodleMoot 2007, [in hungarian], Debrecen, Magyarország, 2007. november 16–17.
- [25] *A new martingale limit theorem with applications for critical branching processes with immigration*, 6th Session of the ISI, Lisboa, Portugal, 22–29 August, 2007.
- [26] *Critical multitype branching processes with immigration*, Probability at Warwick, Warwick, UK, 23–27 July, 2007.
- [27] with Á. Papp, *Applications of ensemble methods in data mining*, 7th International Conference on Applied Informatics (ICAI 2007), Eger, Hungary, 28–31 January, 2007.
- [28] *Critical multitype branching processes with immigration*, XXVI. Seminar on Stability Problems for Stochastic Models, Sovata-Bai, Romania, 27 August – 2 September, 2006.
- [29] *Adatbányászat oktatása SAS-sal a Debreceni Egyetemen*, SAS Felsőoktatási Fórum, Budapest, Magyarország, 2006. július 11.
- [30] *Statistical inference for multitype branching processes with immigration*, 9th International Conference on Probability Theory and Mathematical Statistics, Vilnius, Lithuania, 25–30 June, 2006.
- [31] with S. Baran, J. Gáll, and G. Pap, *Prediction of hungarian mortality rates using Lee-Carter method*, Fourth Conference on Applied Mathematics and Scientific Computing, Brijuni, Croatia, 19–24 June, 2005.
- [32] *Critical branching processes with immigration*, Third Croatian Congress of Mathematics, Split, Croatia, 16–18 June, 2004.
- [33] *Instabil és nemlineáris idősorok vizsgálata*, II. Gyires Béla Informatikai Nap, [in hungarian], Debrecen, Magyarország, 2003. december 18.
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